

CRF Errors Corrected by the STIC System Branch

Serial Number: 10/009,693

CRF Processing Date: 1/17/2002  
 Edited by: [Signature]  
 Verified by: [Signature] (STIC staff)

**ENTERED**

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☒ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: 3

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:

☐ Deleted extra, invalid, headings used by an applicant, specifically:

☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;  
☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_.

☐ Inserted mandatory headings, specifically: \_\_\_\_\_

☐ Corrected an obvious error in the response, specifically:

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

☐ Other: \_\_\_\_\_

PCT10

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/009,693

DATE: 01/17/2002

TIME: 08:11:04

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J009693.raw

```

2 <110> APPLICANT: Takeda Chemical Industries, Ltd.
W--> 3 <120> TITLE OF INVENTION: Novel Protein and its DNA
W--> 4 <130> FILE REFERENCE: 2613WOOP
C--> 5 <140> CURRENT APPLICATION NUMBER: US/10/009,693
C--> 5 <141> CURRENT FILING DATE: 2001-12-10
5 <150> PRIOR APPLICATION NUMBER: JP 11-163924
6 <151> PRIOR FILING DATE: 1999-06-10
W--> 7 <160> NUMBER OF SEQ ID: 12
W--> 8 <210> SEQ ID NO: 1
9 <211> LENGTH: 602
10 <212> TYPE: PRT
11 <213> ORGANISM: Human
W--> 12 <400> SEQUENCE: 1
13 Met Asp Ser Arg Val Ser Gly Thr Thr Ser Asn Gly Glu Thr Lys Pro
14 1 5 10 15
15 Val Tyr Pro Val Met Glu Lys Lys Glu Asp Gly Thr Leu Glu Arg
16 20 25 30
17 Gly His Trp Asn Asn Lys Met Glu Phe Val Leu Ser Val Ala Gly Glu
18 35 40 45
19 Ile Ile Gly Leu Gly Asn Val Trp Arg Phe Pro Tyr Leu Cys Tyr Lys
20 50 55 60
21 Asn Gly Gly Gly Ala Phe Phe Ile Pro Tyr Leu Val Phe Leu Phe Thr
22 65 70 75 80
23 Cys Gly Ile Pro Val Phe Leu Leu Glu Thr Ala Leu Gly Gln Tyr Thr
24 85 90 95
25 Ser Gln Gly Gly Val Thr Ala Trp Arg Lys Ile Cys Pro Ile Phe Glu
26 100 105 110
27 Gly Ile Gly Tyr Ala Ser Gln Met Ile Val Ile Leu Leu Asn Val Tyr
28 115 120 125
29 Tyr Ile Ile Val Leu Ala Trp Ala Leu Phe Tyr Leu Phe Ser Ser Phe
30 130 135 140
31 Thr Ile Asp Leu Pro Trp Gly Gly Cys Tyr His Glu Trp Asn Thr Glu
32 145 150 155 160
33 His Cys Met Glu Phe Gln Lys Thr Asn Gly Ser Leu Asn Gly Thr Ser
34 165 170 175
35 Glu Asn Ala Thr Ser Pro Val Ile Glu Phe Trp Glu Arg Arg Val Leu
36 180 185 190
37 Lys Ile Ser Asp Gly Ile Gln His Leu Gly Ala Leu Arg Trp Glu Leu
38 195 200 205
39 Ala Leu Cys Leu Leu Leu Ala Trp Val Ile Cys Tyr Phe Cys Ile Trp
40 210 215 220
41 Lys Gly Val Lys Ser Thr Gly Lys Val Val Tyr Phe Thr Ala Thr Phe
42 225 230 235 240
43 Pro Tyr Leu Met Leu Val Val Leu Leu Ile Arg Gly Val Thr Leu Pro
44 245 250 255
45 Gly Ala Ala Gln Gly Ile Gln Phe Tyr Leu Tyr Pro Asn Leu Thr Arg
46 260 265 270

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/009,693

DATE: 01/17/2002

TIME: 08:11:04

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J009693.raw

```

47 Leu Trp Asp Pro Gln Val Trp Met Asp Ala Gly Thr Gln Ile Phe Phe
48           275           280           285
49 Ser Phe Ala Ile Cys Leu Gly Cys Leu Thr Ala Leu Gly Ser Tyr Asn
50           290           295           300
51 Lys Tyr His Asn Asn Cys Tyr Arg Asp Cys Ile Ala Leu Cys Phe Leu
52 305           310           315           320
53 Asn Ser Gly Thr Ser Phe Val Ala Gly Phe Ala Ile Phe Ser Ile Leu
54           325           330           335
55 Gly Phe Met Ser Gln Glu Gln Gly Val Pro Ile Ser Glu Val Ala Glu
56           340           345           350
57 Ser Gly Pro Gly Leu Ala Phe Ile Ala Tyr Pro Arg Ala Val Val Met
58           355           360           365
59 Leu Pro Phe Ser Pro Leu Trp Ala Cys Cys Phe Phe Phe Met Val Val
60           370           375           380
61 Leu Leu Gly Leu Asp Ser Gln Phe Val Cys Val Glu Ser Leu Val Thr
62 385           390           395           400
63 Ala Leu Val Asp Met Tyr Pro His Val Phe Arg Lys Lys Asn Arg Arg
64           405           410           415
65 Glu Val Leu Ile Leu Gly Val Ser Val Val Ser Phe Leu Val Gly Leu
66           420           425           430
67 Ile Met Leu Thr Glu Gly Gly Met Tyr Val Phe Gln Leu Phe Asp Tyr
68           435           440           445
69 Tyr Ala Ala Ser Gly Met Cys Leu Leu Phe Val Ala Ile Phe Glu Ser
70           450           455           460
71 Leu Cys Val Ala Trp Val Tyr Gly Ala Lys Arg Phe Tyr Asp Asn Ile
72 465           470           475           480
73 Glu Asp Met Ile Gly Tyr Arg Pro Trp Pro Leu Ile Lys Tyr Cys Trp
74           485           490           495
75 Leu Phe Leu Thr Pro Ala Val Cys Thr Ala Thr Phe Leu Phe Ser Leu
76           500           505           510
77 Ile Lys Tyr Thr Pro Leu Thr Tyr Asn Lys Lys Tyr Thr Tyr Pro Trp
78           515           520           525
79 Trp Gly Asp Ala Leu Gly Trp Leu Leu Ala Leu Ser Ser Met Val Cys
80           530           535           540
81 Ile Pro Ala Trp Ser Leu Tyr Arg Leu Gly Thr Leu Lys Gly Pro Phe
82 545           550           555           560
83 Arg Glu Arg Ile Arg Gln Leu Met Cys Pro Ala Glu Asp Leu Pro Gln
84           565           570           575
85 Arg Asn Pro Ala Gly Pro Ser Ala Pro Ala Thr Pro Arg Thr Ser Leu
86           580           585           590
87 Leu Arg Leu Thr Glu Leu Glu Ser His Cys
88           595           600

```

89 &lt;210&gt; SEQ ID NO: 2

90 &lt;211&gt; LENGTH: 1806

91 &lt;212&gt; TYPE: DNA

92 &lt;213&gt; ORGANISM: Human

W--&gt; 93 &lt;400&gt; SEQUENCE: 2

C--&gt; 94 atggatagca ggggtctcagg cacaaccagt aatggagaga caaaaccagt gtatccagtc 60

95 atggaaaaga aggaggaaga tggcaccctg gagcgggggc actggaacaa caagatggag 120

## RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/009,693

TIME: 08:11:04

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J009693.raw

```

96 tttgtgctgt cagtggctgg ggagatcatt ggcttaggca acgtctggag gtttccctat 180
97 ctctgctaca aaaatggggg aggtgccttc ttcacccctt acctcgctt cctctttacc 240
98 tgtggcattc ctgtcttctt tctggagaca gcactaggcc agtacactag ccagggaggg 300
99 gtcacagcct ggaggaagat ctgccccatc tttgagggca ttggctatgc ctcccagatg 360
100 atcgatcatc tcctcaacgt ctactacatc attgtgttgg cctggggcct gttctacctc 420
101 ttcagcagct tcaccatcga cctgccctgg ggcggctgct accatgagtg gaacacagaa 480
102 cactgtatgg agttccagaa gaccaacggc tccctgaatg gtacctctga gaatgccacc 540
103 tctcctgtca tgcagttctg ggagcggcgg gtcttgaaga tctctgatgg gatccagcac 600
104 ctggggggccc tgcgctggga gctggctctg tgcctcctgc tggcctgggt catctgctac 660
105 ttctgcatct ggaagggggg gaagtccaca ggcaagggtg tgtacttcac ggccacattt 720
106 ccttacctca tgcctgggtg cctgttaatt cgaggggtga cgttgccctg ggcagcccaa 780
107 ggaattcagt ttacctgta cccaaacctc acgcgtctgt gggatcccca ggtgtggatg 840
108 gatgcaggca ccagataatt cttctccttc gccatctgtc ttgggtgcct gacagccctg 900
109 ggcagctaca acaagtacca caacaactgc tacagggact gcacgcctc ctgcttcctc 960
110 aacagcggca ccagctttgt ggccggcttt gccatcttct ccacctggg cttcatgtct 1020
111 caggagcagg ggtgcccatt ttctgaggtg gccgagtcag gccctggcct ggctttcctc 1080
112 gcttaccgcg gggctgtggt gatgctgcc ttctctcctc tctgggcctg ctgtttcttc 1140
113 ttcatggctg ttctcctggg actggatagc cagtttgtgt gtgtagaaag cctggtgaca 1200
114 gcgctggtgg acatgtaccc tcacgtgttc cgcaagaaga accggaggga agtcctcctc 1260
115 cttggagtat ctgtcgtctc cttccttgtg gggctgatca tgcctacaga ggcgggaatg 1320
116 tacgtgttcc agctctttga ctactatgcg gccagtggca tgtgcctcct gttcgtggcc 1380
117 atcttcgagt cctctgtgtt ggcttgggtt tacggagcca agcgcttcta cgacaacatc 1440
118 gaagacatga ttgggtacag gccatggcct cttatcaaat actgttggct cttcctcaca 1500
119 ccagctgtgt gcacagccac ctttctcttc tccctgataa agtacactcc gctgacctac 1560
120 aacaagaagt acacgtaccc gtggtggggc gatgccttg gctggctcct ggctctgtcc 1620
121 tccatggtct gcattcctgc ctggagcctc tacagactcg gaaccctcaa gggcccttc 1680
122 agagagagaa tccgtcagct catgtgcca gccaggacc tgccccagcg gaaccagca 1740
123 ggaccctcgg ctcccgccac ccccaggacc tcactgctca gactcacaga gctagagtct 1800
124 cactgc 1806

```

```

125 <210> SEQ ID NO: 3
126 <211> LENGTH: 30
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence

```

W--&gt; 129 &lt;220&gt; FEATURE:

130 &lt;223&gt; OTHER INFORMATION: Primer

W--&gt; 131 &lt;400&gt; SEQUENCE: 3

C--&gt; 132 ggtgggatgg ataacagggg ctcgggaacg 30

133 &lt;210&gt; SEQ ID NO: 4

134 &lt;211&gt; LENGTH: 30

135 &lt;212&gt; TYPE: DNA

136 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 137 &lt;220&gt; FEATURE:

138 &lt;223&gt; OTHER INFORMATION: Primer

W--&gt; 139 &lt;400&gt; SEQUENCE: 4

C--&gt; 140 ccctagcagt tagactccag ttctgtgagc 30

141 &lt;210&gt; SEQ ID NO: 5

142 &lt;211&gt; LENGTH: 24

143 &lt;212&gt; TYPE: DNA

144 &lt;213&gt; ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/009,693

TIME: 08:11:04

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J009693.raw

```

W--> 145 <220> FEATURE:
      146 <223> OTHER INFORMATION: Primer
W--> 147 <400> SEQUENCE: 5
C--> 148 gcacctcccc catttttgta gcag 24
      149 <210> SEQ ID NO: 6
      150 <211> LENGTH: 24
      151 <212> TYPE: DNA
      152 <213> ORGANISM: Artificial Sequence
W--> 153 <220> FEATURE:
      154 <223> OTHER INFORMATION: Primer
W--> 155 <400> SEQUENCE: 6
C--> 156 gacaggaatg ccacaggtaa agag 24
      157 <210> SEQ ID NO: 7
      158 <211> LENGTH: 24
      159 <212> TYPE: DNA
      160 <213> ORGANISM: Artificial Sequence
W--> 161 <220> FEATURE:
      162 <223> OTHER INFORMATION: Primer
W--> 163 <400> SEQUENCE: 7
C--> 164 ctctacagac tcggaaccct caag 24
      165 <210> SEQ ID NO: 8
      166 <211> LENGTH: 24
      167 <212> TYPE: DNA
      168 <213> ORGANISM: Artificial Sequence
W--> 169 <220> FEATURE:
      170 <223> OTHER INFORMATION: Primer
W--> 171 <400> SEQUENCE: 8
C--> 172 cctgggctgg ctctggctc tgtc 24
      173 <210> SEQ ID NO: 9
      174 <211> LENGTH: 27
      175 <212> TYPE: DNA
      176 <213> ORGANISM: Artificial Sequence
W--> 177 <220> FEATURE:
      178 <223> OTHER INFORMATION: Primer
W--> 179 <400> SEQUENCE: 9
C--> 180 ccataccta acgactcact atagggc 27
      181 <210> SEQ ID NO: 10
      182 <211> LENGTH: 23
      183 <212> TYPE: DNA
      184 <213> ORGANISM: Artificial Sequence
W--> 185 <220> FEATURE:
      186 <223> OTHER INFORMATION: Primer
W--> 187 <400> SEQUENCE: 10
C--> 188 actcactata gggctcgagc ggc 23
      189 <210> SEQ ID NO: 11
      190 <211> LENGTH: 36
      191 <212> TYPE: DNA
      192 <213> ORGANISM: Artificial Sequence
W--> 193 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/009,693

TIME: 08:11:04

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J009693.raw

```
194 <223> OTHER INFORMATION: Primer
W--> 195 <400> SEQUENCE: 11
C--> 196 ggcagcgcta gcaggtctgg cagcagcttc actaag 36
197 <210> SEQ ID NO: 12
198 <211> LENGTH: 36
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
W--> 201 <220> FEATURE:
202 <223> OTHER INFORMATION: Primer
W--> 203 <400> SEQUENCE: 12
C--> 204 tcaccagtcg acggcacaca ggcaccatcc aagggc 36
```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/009,693

DATE: 01/17/2002

TIME: 08:11:05

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J009693.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier  
L:4 M:283 W: Missing Blank Line separator, <130> field identifier  
L:5 M:270 C: Current Application Number differs, Replaced Current Application No  
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:7 M:283 W: Missing Blank Line separator, <160> field identifier  
L:8 M:283 W: Missing Blank Line separator, <210> field identifier  
L:12 M:283 W: Missing Blank Line separator, <400> field identifier  
L:93 M:283 W: Missing Blank Line separator, <400> field identifier  
L:94 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=2  
L:129 M:283 W: Missing Blank Line separator, <220> field identifier  
L:131 M:283 W: Missing Blank Line separator, <400> field identifier  
L:132 M:112 C: (48) String data converted to lower case,  
L:137 M:283 W: Missing Blank Line separator, <220> field identifier  
L:139 M:283 W: Missing Blank Line separator, <400> field identifier  
L:140 M:112 C: (48) String data converted to lower case,  
L:145 M:283 W: Missing Blank Line separator, <220> field identifier  
L:147 M:283 W: Missing Blank Line separator, <400> field identifier  
L:148 M:112 C: (48) String data converted to lower case,  
L:153 M:283 W: Missing Blank Line separator, <220> field identifier  
L:155 M:283 W: Missing Blank Line separator, <400> field identifier  
L:156 M:112 C: (48) String data converted to lower case,  
L:161 M:283 W: Missing Blank Line separator, <220> field identifier  
L:163 M:283 W: Missing Blank Line separator, <400> field identifier  
L:164 M:112 C: (48) String data converted to lower case,  
L:169 M:283 W: Missing Blank Line separator, <220> field identifier  
L:171 M:283 W: Missing Blank Line separator, <400> field identifier  
L:172 M:112 C: (48) String data converted to lower case,  
L:177 M:283 W: Missing Blank Line separator, <220> field identifier  
L:179 M:283 W: Missing Blank Line separator, <400> field identifier  
L:180 M:112 C: (48) String data converted to lower case,  
L:185 M:283 W: Missing Blank Line separator, <220> field identifier  
L:187 M:283 W: Missing Blank Line separator, <400> field identifier  
L:188 M:112 C: (48) String data converted to lower case,  
L:193 M:283 W: Missing Blank Line separator, <220> field identifier  
L:195 M:283 W: Missing Blank Line separator, <400> field identifier  
L:196 M:112 C: (48) String data converted to lower case,  
L:201 M:283 W: Missing Blank Line separator, <220> field identifier  
L:203 M:283 W: Missing Blank Line separator, <400> field identifier  
L:204 M:112 C: (48) String data converted to lower case,